



CONTENTS OF VOLUME 39

Number 1

1 An Assessment of Testing Methods of Color Fastness to Light, Water and Perspiration, and Related Method with Some Reactive Dyes
Y. OKADA, A. SUGANE, F. FUKUOKA & F. MORITA (Japan)

25 Photochemical Properties of a Photochromic Naphthoxazine upon UV Irradiation in the Presence of Transition Metal Ions
St. MINKOVSKA, K. KOLEV, B. JELIAZKOVA & T. DELIGEORGIEV (Bulgaria)

35 Morphological Changes and Dye Uptake of Poly(ethylene terephthalate) and 2,5-cellulose Diacetate Immersed in Supercritical Carbon Dioxide
P. L. BELTRAME (Deceased), A. CASTELLI, E. SELLI, L. VILLANI, A. MOSSA, A. SEVES & G. TESTA (Italy)

49 Syntheses and Fluorescent Properties of 2,5-Diamino-3,6-dicyanopyrazine Dyes
K. SHIRAI, A. YANAGISAWA, H. TAKAHASHI, K. FUKUNISHI & M. MATSUOKA (Japan)

Number 2

69 Synthesis of Some Unsaturated 9-Phenylxanthene Dyes
T. N. KONSTANTINOVA & V. B. BOJNOV (Bulgaria)

77 Syntheses, Characteristics and Electrophotographic Properties of New Dithiosquarylium Dyes
S. H. KIM, S. K. HAN, J. J. KIM, S. H. HWANG, C. M. YOON & S. R. KEUM (Korea)

89 Synthesis, Spectral Properties and Application of Some Reactive Anthraquinone Dyes
I. GRABCHEV & TZ. PHILIPPOVA (Bulgaria)

97 Thermochromism of Dyes on Silica Gel
M. TAJIMA, M. SUGAI, K. MATSUNAGA, T. YAMASHITA, H. INOUE & M. HIDA (Japan)

111 The Use of Fourier Transform Infrared (FT-IR) Spectroscopy to Study the State of Heterobifunctional Reactive Dyes
D. M. LEWIS & J. C. WANG (UK)

Comment

125 Comment on 'Dimer Formation of Viologen Derivatives and their Electrochromic Properties'
P. M. S. MONK (UK)

129 Corrigenda

Number 3

133 Synthesis of Bis (*N*-phenylcarbazolyl-3-yl) Toluene Iodide
D. LI, Z. WANG, Z. GUO & W. LAN (People's Republic of China)

139 Effect of Temperature on Chromaticity Coordinates Over a 700° Range: A Study of Alkali Metal Uranates
T. R. GRIFFITHS, V. A. VOLKOVICH, D. J. FRAY & M. FIELDS (UK)

159 Field Desorption Mass Spectral Analysis of Some Nonmutagenic Benzidine-Based Pigments
J. SOKOLOWSKA-GAJDA, D. HINKS, C. A. HANEY, H. S. FREEMAN (USA)
& M. TANAKA (Japan)

173 Photophysical Properties of Amphiphilic Porphyrins in Different Media
X. HE, Y. ZHOU, L. WANG, T. LI, M. H. ZHANG & T. SHEN (People's Republic of China)

183 Water-repellent Acid Dyes: The Influence of the Perfluorobutamido Group on the Colour, Dyeing and Fastness Properties of 2-(*p*-Alkyl) Phenylazo-1-naphthol Acid Dyes
Y. C. CHAO, M. J. CHANG & C. H. CHANG (Taiwan)

Number 4

193 Synthesis of Naphthopyrones as Potential Monofunctional Photobiological Agents to DNA
Z.-F. TAO & X. QIAN (People's Republic of China)

201 The Influence of *N*-Alkyl Groups on the Properties of Squarylium Cyanine Dyes
L. TONG & P. BIXIAN (People's Republic of China)

211 Guar Gum as an Environment-friendly Alternative Thickener in Printing with Reactive Dyes
S. SOSTAR (Slovenia) & R. SCHNEIDER (Germany)

223 The Synthesis and Film-forming Property of a New Amphiphilic Phthalocyanine
D. XIMING & X. HUIJUN (China)

231 Photoelectric Properties of Amphiphilic Porphyrin Langmuir-Blodgett Film
X. HE, Y. ZHOU, L. WANG, T. LI, Z. BI, M. ZHANG & T. SHEN (People's Republic of China)

243 Dissociation of Hydroxyl Groups of Cellulose at Low Ionic Strengths
H. MOTOMURA, S.-H. BAE & Z. MORITA (Japan)

259 Crystal Structure of a Photoconductive Dithiosquarylium Dye: 2,4-Bis(1,3,3-trimethyl-2-indolylidenemethyl) Cyclobutenediylium-1,3-dithiolate
S. H. KIM, S. K. HAN, J. J. KIM, W. T. LIM, N. H. HEO & K. N. KOH (Korea)

267 The Synthesis of Some Bridgehead Heterocyclic Monomethine Cyanine Dyes
R. MAHMOUD & A. EL-AAL (Egypt)

281 Interaction of Squarylium Cyanine with Nanoparticle TiO₂ for Photoelectric Conversion
W. ZHAO, J.-R. CHEN, B.-W. ZHANG & Y. CAO (People's Republic of China)

291 Lanasol Dyes and Wool Fibres. Part I: Model Studies on the Mechanism of Dye Fixation in a Mixed Solvent System
J. S. CHURCH, A. S. DAVIE, P. J. SCAMMELLS & D. J. TUCKER (Australia)

313 Lanasol Dyes and Wool Fibres. Part II: Model Studies on the Mechanism of Dye Fixation in an Aqueous System
J. S. CHURCH, A. S. DAVIE, P. J. SCAMMELLS & D. J. TUCKER (Australia)

335 Dyeing of Cotton in Supercritical Carbon Dioxide
P. L. BELTRAME, A. CASTELLI, E. SELLI, A. MOSSA, G. TESTA, A. M. BONFATTI & A. SEVES (Italy)

341 Self-Assembling of Aminopyrazine Fluorescent Dyes and Their Solid State Spectra
J. H. KIM, S. R. SHIN, M. MATSUOKA & K. FUKUNISHI (Japan)

359 Absorption Spectra and Electrophotographic Properties of Squarylium Dyes Containing a Nitro Group
S. H. HWANG, N. K. KIM, K. N. KOH & S. H. KIM (Korea)

371 Syntheses and Photophysical Properties of Amphiphilic Dyads of Fluorescein and Carbazole Linked with a Flexible or Semi-rigid Bridge
A. SONG, T. WU, S. CHEN, M. ZHANG & T. SHEN (People's Republic of China)

383 Resolution and Circular Dichroism of a Non-activated Spiropyran Dye: 6-(*p*-Chlorophenylazo)-1',3',3'-trimethylspiro[2*H*-1-benzopyran-2,2'-indoline]
S.-R. KEUM, M.-J. LEE (Korea), S. SWANSBURG, E. BUNCEL & R. P. LEMIEUX (Canada)